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RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/730,469

DATE: 12/26/2000
 TIME: 13:40:37

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Input Set : A:\seqlist.txt
 Output Set: N:\CRF3\12262000\I730469.raw

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4 <110> APPLICANT: Anthony P. Heaney
 5 Gregory A. Horwitz
 6 Xun Zhang
 7 Shlomo Melmed
 9 <120> TITLE OF INVENTION: Methods of Using Pituitary Tumor
 10 Transforming Gene (PTG) Carboxy-terminal Peptides to
 11 Inhibit Neoplastic Cellular Proliferation And/Or
 12 Transformation of Breast and Ovarian Cells
 15 <130> FILE REFERENCE: CEDAR-45257
 C--> 17 <140> CURRENT APPLICATION NUMBER: US/09/730,469
 18 <141> CURRENT FILING DATE: 2000-12-04
 20 <150> PRIOR APPLICATION NUMBER: US CIP 09/687,911
 21 <151> PRIOR FILING DATE: 2000-10-13
 23 <150> PRIOR APPLICATION NUMBER: US CIP 09/569,956
 24 <151> PRIOR FILING DATE: 2000-05-12
 26 <150> PRIOR APPLICATION NUMBER: US 08/894,251
 27 <151> PRIOR FILING DATE: 1999-07-23
 29 <150> PRIOR APPLICATION NUMBER: PCT/US97/21463
 30 <151> PRIOR FILING DATE: 1997-11-21
 32 <150> PRIOR APPLICATION NUMBER: US 60/031,338
 33 <151> PRIOR FILING DATE: 1996-11-21
 35 <160> NUMBER OF SEQ ID NOS: 19
 37 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 39 <210> SEQ ID NO: 1
 40 <211> LENGTH: 974
 41 <212> TYPE: DNA
 42 <213> ORGANISM: Rattus rattus
 44 <400> SEQUENCE: 1
 45 aattcggcac gagccaaacct tgagcatctg atccctcttg cttctccttc ctatcgctga 60
 46 gctggtaggc tggagacagt tggtttgggtg ccaacatcaa caaacgattt ctgtagttta 120
 47 gcgtttatga cctgycgtg aagattttaa gctctggatta agcctgttga cttctccagc 180
 48 tacttctaaa tttttgtgca taggtgctct ggtctctgtt gctgcttagt tcttccagcc 240
 49 ttcctcaatg ccagttttat aatatgcagg tctctccctc cagtaatcca ggatggctac 300
 50 tctgactctt qttgataagg ataacgaaga gccaggcagc cgtttggcat ctaaggatgg 360
 51 attgaagctg ggtctctggt tcaaaagcctt agatgggaaa ttgcaggttt caacgccacg 420
 52 agtcygc aaa gtgttcgylg cccagcctt gccataagcc agcagggaag ctclgggaac 480
 53 tgtcaacaga gttactgaaa agccagtga gagtatgaaa cccctgcaat cgaacagcc 540
 54 gactctgagt gtgaaaaaga tcaccgagaa gtctactaag acacaaggct ctgctcctgc 600
 55 tcctgatgat gctacccag aaatagaaaa gttcttcgcc ttcgatctc tagattttga 660
 56 gagttttgac ctgcctgaag agcaccagat ctcacttctc cccttgaatg gaglccctct 720
 57 catgatcctg aatgaagaga gggggttga gaagctgctg cacttggaac ccccttcccc 780
 58 tctgcagaag ccccttctac cgtgggaatc tgatccgttg ccgtctctc ccagcgcctc 840
 59 ctccgctctg gatgttgaat tgccgcctgt ttgttacgat gcagatattt aaacytctta 900
 60 ctcccttata gtttatgtaa gttgtattaa taaagcattt gtgtgtaaaa aaaaaaaaaa 960
 61 aaactcgaga gtac 974
 63 <210> SEQ ID NO: 2
 64 <211> LENGTH: 199

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Input Set : A:\seqlist.txt

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65 <212> TYPE: PRT
 66 <213> ORGANISM: Rattus rattus
 68 <400> SEQUENCE: 2
 69 Met Ala Thr Leu Ile Phe Val Asp Lys Asp Asn Glu Glu Pro Gly Ser
 70 1 5 10 15
 71 Arg Leu Ala Ser Lys Asp Gly Leu Lys Leu Gly Ser Gly Val Lys Ala
 72 20 25 30
 73 Leu Asp Gly Lys Leu Gln Val Ser Thr Pro Arg Val Gly Lys Val Phe
 74 35 40 45
 75 Gly Ala Pro Gly Leu Pro Lys Ala Ser Arg Lys Ala Leu Gly Thr Val
 76 50 55 60
 77 Asn Arg Val Thr Glu Lys Pro Val Lys Ser Ser Lys Pro Leu Gln Ser
 78 65 70 75 80
 79 Lys Gln Pro Thr Leu Ser Val Lys Lys Ile Thr Glu Lys Ser Thr Lys
 80 85 90 95
 81 Thr Gln Gly Ser Ala Pro Ala Pro Asp Asp Ala Tyr Pro Glu Ile Glu
 82 100 105 110
 83 Lys Phe Phe Pro Phe Asp Pro Leu Asp Phe Glu Ser Phe Asp Leu Pro
 84 115 120 125
 85 Glu Glu His Gln Ile Ser Leu Leu Pro Leu Asn Gly Val Pro Leu Met
 86 130 135 140
 87 Ile Leu Asn Glu Glu Arg Gly Leu Glu Lys Leu Leu His Leu Asp Pro
 88 145 150 155 160
 89 Pro Ser Pro Leu Gln Lys Pro Phe Leu Pro Trp Glu Ser Asp Pro Leu
 90 165 170 175
 91 Pro Ser Pro Pro Ser Ala Leu Ser Ala Leu Asp Val Glu Leu Pro Pro
 92 180 185 190
 93 Val Cys Tyr Asp Ala Asp Ile
 94 195
 97 <210> SEQ ID NO: 3
 98 <211> LENGTH: 779
 99 <212> TYPE: DNA
 100 <213> ORGANISM: Homo sapiens
 102 <400> SEQUENCE: 3
 103 atggcgcgga gttgtggttt aaaccaggag tgcgcgcgt ccgttcaccg cggcctcaga 60
 104 tgaatgcggc tgttaagacc tgcaataatc cagaatggct actctgatct atgttgataa 120
 105 ggaaatgga gaaccaggca ccgtgtgtgt tgctaaggat gggctgaagc tggggctctg 180
 106 accttcaatc aaagccttag atgggagatc tcaagtttca acaccacgtt ttggcacaac 240
 107 gttcgatgcc ccaccagcct tacctaaagc tactagaaag gctttgggaa ctgtcaacag 300
 108 agctacagaa aaqtcgttaa agaccaaggg acccctcaaa caaaaacagc caagcttttc 360
 109 tgccaaaaag atgaactgaga agactgttaa agcaaaaagc tctgttctct cctcaagatga 420
 110 tgccatacca gaaatagaaa aattcttttc cttcaatcct ctgacttttg agagttttga 480
 111 cctgcctgaa gacaccaga ttgcgcacct ccccttgagt ggagtgcctc tcatgatcct 540
 112 tgacgaggag agagagcttg aaaagctggt tcagctgggc ccccttcac ctgtgaagat 600
 113 gccctctcca ccatgggaat ccaatctggt gcagctcctc tcaagcattc tgcgacct 660
 114 ggaatgttaa ttgccacctg ttgctgtga catagatatt taaatttctt agtgcttcag 720
 115 agtttgtgtg tatttgtatt aataaagcat tctttaacag ataaaaaaaa aaaaaaaaaa 779
 117 <210> SEQ ID NO: 4
 118 <211> LENGTH: 202

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Input Set : A:\seqlist.txt
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119 <213> TYPE: PRT
 120 <213> ORGANISM: Homo sapiens
 122 <400> SEQUENCE: 4
 123 Met Ala Thr Leu Ile Tyr Val Asp Lys Glu Asn Gly Glu Pro Gly Thr
 124 1 5 10 15
 125 Arg Val Val Ala Lys Asp Gly Leu Lys Leu Gly Ser Gly Pro Ser Ile
 126 20 25 30
 127 Lys Ala Leu Asp Gly Arg Ser Gln Val Ser Thr Pro Arg Phe Gly Lys
 128 35 40 45
 129 Thr Phe Asp Ala Pro Pro Ala Leu Pro Lys Ala Thr Arg Lys Ala Leu
 130 50 55 60
 131 Gly Thr Val Asn Arg Ala Thr Glu Lys Ser Val Lys Thr Lys Gly Pro
 132 65 70 75 80
 133 Leu Lys Gln Lys Gln Pro Ser Phe Ser Ala Lys Lys Met Thr Gln Lys
 134 85 90 95
 135 Thr Val Lys Ala Lys Ser Ser Val Pro Ala Ser Asp Asp Ala Tyr Pro
 136 100 105 110
 137 Glu Ile Glu Lys Phe Phe Pro Phe Asn Pro Leu Asp Phe Glu Ser Phe
 138 115 120 125
 139 Asp Leu Pro Glu Glu His Gln Ile Ala His Leu Pro Leu Ser Gly Val
 140 130 135 140
 141 Pro Leu Met Ile Leu Asp Glu Glu Arg Glu Leu Glu Lys Leu Phe Gln
 142 145 150 155 160
 143 Leu Gly Pro Pro Ser Pro Val Lys Met Pro Ser Pro Pro Trp Glu Ser
 144 165 170 175
 145 Asn Leu Leu Gln Ser Pro Ser Ser Ile Leu Ser Thr Leu Asp Val Glu
 146 180 185 190
 147 Leu Pro Pro Val Cys Cys Asp Ile Asp Ile
 148 195 200
 151 <210> SEQ ID NO: 5
 152 <211> LENGTH: 31
 153 <212> TYPE: DNA
 154 <213> ORGANISM: Artificial Sequence
 156 <220> FEATURE:
 157 <223> OTHER INFORMATION: Synthetic oligonucleotide.
 159 <400> SEQUENCE: 5
 160 gatgctctcc gcactctggg aatccaatct g 31
 162 <210> SEQ ID NO: 6
 163 <211> LENGTH: 32
 164 <212> TYPE: DNA
 165 <213> ORGANISM: Artificial Sequence
 167 <220> FEATURE:
 168 <223> OTHER INFORMATION: Synthetic oligonucleotide.
 170 <400> SEQUENCE: 6
 171 ttacacaagtt gaggggcgcc cagctgaaac ag 32
 173 <210> SEQ ID NO: 7
 174 <211> LENGTH: 32
 175 <212> TYPE: DNA
 176 <213> ORGANISM: Artificial Sequence

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Input Set : A:\seqlist.txt
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178 <220> FEATURE:
 179 <223> OTHER INFORMATION: Synthetic oligonucleotide specific to pCI-neo
 180 plasmid vector.
 182 <400> SEQUENCE: 7
 183 ggctagagta ctttaatacga ctactatag gc 32
 185 <210> SEQ ID NO: 8
 186 <211> LENGTH: 31
 187 <212> TYPE: DNA
 188 <213> ORGANISM: Homo sapiens
 190 <400> SEQUENCE: 8
 191 ctatgtcaca gcaaacagggt ggcaattcaa c 31
 193 <210> SEQ ID NO: 9
 194 <211> LENGTH: 56
 195 <212> TYPE: PRT
 196 <213> ORGANISM: Homo sapiens
 198 <400> SEQUENCE: 9
 199 Met Ile Leu Asp Glu Glu Arg Glu Leu Lys Leu Phe Gln Leu Gly
 200 1 5 10 15
 201 Pro Pro Ser Pro Val Lys Met Pro Ser Pro Pro Trp Glu Ser Asn Leu
 202 20 25 30
 203 Leu Gln Ser Pro Ser Ser Ile Leu Ser Thr Leu Asp Val Glu Leu Pro
 204 35 40 45
 205 Pro Val Cys Cys Asp Ile Asp Ile
 206 50 55
 209 <210> SEQ ID NO: 10
 210 <211> LENGTH: 168
 211 <212> TYPE: DNA
 212 <213> ORGANISM: Homo sapiens
 214 <400> SEQUENCE: 10
 215 atgataccttg acgaggagag agagcttgaa aagctgtttc agctgggcc cccctcacct 60
 216 gtgaagatgc cctctccacc atgggaatcc aatctgttgc agtctccttc aagcattctg 120
 217 tcgaccttgg atgttggaatt gccacctgtt tctgtgaca tagatatt 168
 219 <210> SEQ ID NO: 11
 220 <211> LENGTH: 16
 221 <212> TYPE: DNA
 222 <213> ORGANISM: Artificial Sequence
 224 <220> FEATURE:
 225 <223> OTHER INFORMATION: Anchored primer sequence.
 227 <400> SEQUENCE: 11
 228 aagctttttt tttttg 16
 230 <210> SEQ ID NO: 12
 231 <211> LENGTH: 13
 232 <212> TYPE: DNA
 233 <213> ORGANISM: Artificial Sequence
 235 <220> FEATURE:
 236 <223> OTHER INFORMATION: Arbitrary primer sequence.
 238 <400> SEQUENCE: 12
 239 aagcttgctg ctc 13
 241 <210> SEQ ID NO: 13

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Input Set : A:\seqlist.txt
 Output Set: N:\CRF3\12262000\I730469.raw

242 <211> LENGTH: 16
 243 <212> TYPE: DNA
 244 <213> ORGANISM: Artificial Sequence
 246 <220> FEATURE:
 247 <223> OTHER INFORMATION: n = a, g, or c; Anchored primer sequence.
 249 <400> SEQUENCE: 13
 W--> 250 aagctttttt tttttt 16
 252 <210> SEQ ID NO: 14
 253 <211> LENGTH: 194
 254 <212> TYPE: PKT
 255 <213> ORGANISM: Mus musculus
 257 <400> SEQUENCE: 14
 258 Met Ala Thr Leu Ile Phe Val Asp Lys Asp Asn Glu Glu Pro Gly Arg
 259 1 5 10 15
 260 Arg Leu Ala Ser Lys Asp Gly Leu Lys Leu Gly Thr Gly Val Lys Ala
 261 20 25 30
 262 Leu Asp Gly Lys Leu Gln Val Ser Thr Pro Arg Val Gly Lys Val Phe
 263 35 40 45
 264 Asn Ala Pro Ala Val Pro Lys Ala Ser Arg Lys Ala Leu Gly Thr Val
 265 50 55 60
 266 Asn Arg Val Ala Glu Lys Pro Met Lys Thr Gly Lys Pro Leu Gln Pro
 267 65 70 75 80
 268 Lys Gln Pro Thr Leu Thr Gly Lys Lys Ile Thr Glu Lys Ser Thr Lys
 269 85 90 95
 270 Thr Gln Ser Ser Val Pro Ala Pro Asp Asp Ala Tyr Pro Glu Ile Glu
 271 100 105 110
 272 Lys Phe Phe Pro Phe Asn Pro Leu Asp Phe Asp Leu Pro Glu Glu His
 273 115 120 125
 274 Gln Ile Ser Leu Leu Pro Leu Asn Gly Val Pro Leu Ile Thr Leu Asn
 275 130 135 140
 276 Glu Glu Arg Gly Leu Glu Lys Leu Leu His Leu Gly Pro Pro Ser Pro
 277 145 150 155 160
 278 Leu Lys Thr Pro Phe Leu Ser Trp Glu Ser Asp Pro Lys Pro Pro Ser
 279 165 170 175
 280 Ala Leu Ser Thr Leu Asp Val Glu Leu Pro Pro Val Cys Tyr Asp Ala
 281 180 185 190
 282 Asp Ile
 286 <210> SEQ ID NO: 15
 287 <211> LENGTH: 945
 288 <212> TYPE: DNA
 289 <213> ORGANISM: Mus musculus
 291 <400> SEQUENCE: 15
 292 tcttgaactt gttatgttagc aggaggccaa atttgagcat cctcttggct tctctttata 60
 293 gcagagattg taggctggag acagttttga tgggtgccaa cataaactga ttctgtgaag 120
 294 agttgagtg tttatgaccc tggcgtgcag atttaggac tggattaagc ctgttgactt 180
 295 ctccagctac ttataaattt ttgtgcatag gtgccctggg taaagcttgg tctctgttac 240
 296 tgcgtagttt ttccagccgt ctcaatgcc aatattcagc tctctccctt agagtaatec 300
 297 agaattggcta ctcttatctt tgttgataag gataatgaaq aacccggccg ccgtttggca 360
 298 tctaaggatg gyttagagct gggcactggg gtcaaggcct tagatgggaa attgcaggtt 420

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VERIFICATION SUMMARY DATE: 12/26/2000
PATENT APPLICATION: US/09/730,469 TIME: 13:40:38

Input Set : A:\seqlist.txt
Output Set: N:\CRF3\12262000\I730469.raw

L:17 M:270 C: Current Application Number differs, Replaced Current Application Number
L:250 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:13
L:250 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13
L:250 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:13

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